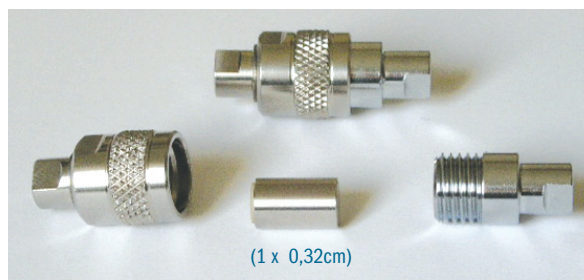


Guard Columns for HPLC **Tk**



Reference	Description
TR-C-160	Holder
TR-C-160K1	Holder + 2 cartridges ODS
TR-C-160K2	Holder + 2 cartridges Si
TR-C-160K3	Holder + 2 cartridges C8
TR-C-160K4	Holder + 2 cartridges NH ₂
TR-C-160K5	Holder + 2 cartridges SAX
TR-C-160K6	Holder + 2 cartridges CN
TR-C-160K7	Holder + 2 cartridges PAH
TR-C-160K8	Holder + 2 cartridges C6H5
TR-C-160K9	Holder + 2 cartridges CARBOHYDRATES
TR-C-160K10	Holder + 2 cartridges ANION
TR-C-160K11	Holder + 2 cartridges SCX
TR-C-160K12	Holder + 2 cartridges C2
TR-C-160K13	Holder + 2 cartridges 300 C4
TR-C-160K14	Holder + 2 cartridges 300 C8
TR-C-160K15	Holder + 2 cartridges DIOL
TR-C-160K16	Holder + 2 cartridges 300 C18
TR-C-160K17	Holder + 2 cartridges C4
TR-C-160K18	Holder + 2 cartridges PRP-1
TR-C-160K19	Holder + 2 cartridges PEPTIDE C18
TR-C-160K20	Holder + 2 cartridges C1
TR-C-160K21	Holder + 2 cartridges C6
TR-C-160-1	ODS Cartridges (5 units)
TR-C-160-2	Si Cartridges (5 units)
TR-C-160-3	C8 Cartridges (5 units)
TR-C-160-4	NH ₂ Cartridges (5 units)
TR-C-160-5	SAX Cartridges (5 units)
TR-C-160-6	CN Cartridges (5 units)
TR-C-160-7	PAH Cartridges (5 units)
TR-C-160-8	C6H5 Cartridges (5 units)
TR-C-160-9	CARBOHYDRATES Cartridges (5 units)
TR-C-160-10	ANION Cartridges (5 units)
TR-C-160-11	SCX Cartridges (5 units)
TR-C-160-12	C2 Cartridges (5 units)
TR-C-160-13	300C4 Cartridges (5 units)
TR-C-160-14	300C8 Cartridges (5 units)
TR-C-160-15	DIOL Cartridges (5 units)
TR-C-160-16	300C18 Cartridges (5 units)
TR-C-160-17	C4 Cartridges (5 units)
TR-C-160-18	PRP-1 Cartridges (5 units)
TR-C-160-19	PEPTIDE C18 Cartridges (5 units)
TR-C-160-20	C1 Cartridges (5 units)
TR-C-160-21	C6 Cartridges (5 units)

Guard Columns for HPLC Columns

- Interposed between the injector and the column these precolumns lengthen the life of the column and improve the reproducibility of their results.
- Packed with the most modern HPLC packings and Novabond™ proprietary packing procedures.
- Economic and easily replaced.
- For general use in any HPLC system.
- Packed at high pressure for maximum stability and duration.
- Their use does not imply any loss of efficiency, even with packings of 3 μm or with microbore columns of 2mm ID

BIOCOMPATIBLE Precolumns

- 100% biocompatible.
- Economical cartridge system with titanium frits.

Constructed in PEEK® and packed with de-activated silica: the steel holder also ensures a total biocompatibility by having every μm in contact with the mobile phase made of PEEK®.

Guard Column Cartridges, Biocompatible

2.0mm ID X 1 cm, 10 μm

UP-C-280	Reversed Phase C18	3-pk
UP-C-282	Reversed Phase C18	10-pk
UP-C-753	Absorption Si	3-pk
UP-C-754	Absorption Si	10-pk
UP-C-755	Amino Phase NH ₂	3-pk
UP-C-756	Amino Phase NH ₂	10-pk
UP-C-757	Cyano Phase CN	3-pk
UP-C-758	Cyano Phase CN	10-pk

Guard Column Cartridges, Biocompatible

4.3mm ID X 1 cm, 5 μm

UP-C-750	Reversed Phase C18	3-pk
UP-C-752	Reversed Phase C18	10-pk
UP-C-759	Absorption Si	3-pk
UP-C-760	Absorption Si	10-pk
UP-C-761	Amino Phase NH ₂	3-pk
UP-C-762	Amino Phase NH ₂	10-pk
UP-C-763	Cyano Phase CN	3-pk
UP-C-764	Cyano Phase CN	10-pk

Guard Column Cartridge Holders, Biocompatible

UP-C-270	High Pressure, Stainless Steel, with (2) F-200 Fittings
UP-C-283	Low Pressure, Teflon, with (2) P-200/P-245 Fittings

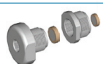
Cartridge Guard Column Kits

UP-C-281	2.0mm ID C18 Cartridges (6-pk) with (1) C-270 Assembly
UP-C-751	4.3mm ID C18 Cartridges (6-pk) with (1) C-270 Assembly

TK Guard Columns for HPLC

Europa™ Guardcolumns

Product	Description	Cat.Nbr.
Ultrafilter™	Ultrafit prefilter adaptor (frit not included)	TR-010067
	Frits of 0.5 µm pore (10 units)	TR-010069
	Frits of 2.0 µm pore (10 units)	TR-010070

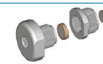


Ultraguard™	Ultrafit Guardcolumn adaptor (guard column not included)	TR-010068
Guard Column Peptide C18	10 x 3.2 mm (5 units)	TR-C-160-19
Guard Column Protein 300 C18	10 x 3.2 mm (5 units)	TR-C-160-16
Guard Column Protein 300 C8	10 x 3.2 mm (5 units)	TR-C-160-14
Guard Column Protein 300 C4	10 x 3.2 mm (5 units)	TR-C-160-13



mediterranea™ sea₁₈ Guardcolumns

Product	Description	Cat.Nbr.
Ultrafilter™	Ultrafit prefilter adaptor (frit not included)	TR-010067
	Frits of 0.5 µm pore (10 units)	TR-010069
	Frits of 2.0 µm pore (10 units)	TR-010070

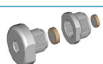


Ultraguard™	Ultrafit Guardcolumn adaptor (guard column not included)	TR-010068
Guard Column Sea18	10 x 3.2 mm (5 units)	TR-010071
Guard Column Sea8	10 x 3.2 mm (5 units)	TR-010073
Guard Column Sea4	10 x 3.2 mm (5 units)	TR-010074



Tracer Excel™ Guardcolumns

Product	Description	Cat.Nbr.
Ultrafilter™	Ultrafit prefilter adaptor (frit not included)	TR-010067
	Frits of 0.5 µm pore (10 units)	TR-010069
	Frits of 2.0 µm pore (10 units)	TR-010070

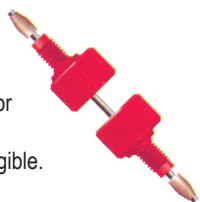


Ultraguard™	Ultrafit Guardcolumn adaptor (guard column not included)	TR-010068
Guard Column ODS	10 x 3.2 mm (5 units)	TR-C-160-1
Guard Column Si	10 x 3.2 mm (5 units)	TR-C-160-2
Guard Column C8	10 x 3.2 mm (5 units)	TR-C-160-3
Guard Column NH2	10 x 3.2 mm (5 units)	TR-C-160-4
Guard Column CN	10 x 3.2 mm (5 units)	TR-C-160-6
Guard Column Ph	10 x 3.2 mm (5 units)	TR-C-160-8
Guard Column C4	10 x 3.2 mm (5 units)	TR-C-160-17
Guard Column C1	10 x 3.2 mm (5 units)	TR-C-160-20



COLUMN-GUARD COLUMN CONNECTOR

- Economical
- Minimum dead volume
- This column-Guard Column connector is the ideal solution for this type of connection, as its dead volume is practically negligible.



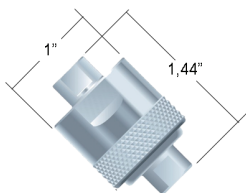
U-284 Union Column-Precolumn

Column-Guard Column connectors

Reference	Description
UP-U-284	Fingertight F-200 coupler, Delrin®, and .007" ID stainless steel tubing.
UP-U-287	Fingertight F-300 coupler, PEEK®, and .007" ID stainless steel tubing.

Semipreparative Guard Columns

- For semipreparative HPLC and SFC 1 cm I.D.



UP-C-1000. Holder for semipreparative cartridge

Reference	Description
UP-C-1000	Semi-Prep holder
UP-C-360-K1	Semi-Prep cartridge ODS (2 units) + UP-C-1000 holder
UP-C-360-K2	Semi-Prep cartridge Si (2 units) + UP-C-1000 holder
UP-C-360-K3	Semi-Prep cartridge C8 (2 units) + UP-C-1000 holder
UP-C-360-K4	Semi-Prep cartridge NH2 (2 units) + UP-C-1000 holder
UP-C-360-K6	Semi-Prep cartridge CN (2 units) + UP-C-1000 holder
UP-C-360-K13	Semi-Prep cartridge Protein C4 (2 units) + UP-C-1000 holder
UP-C-360-K14	Semi-Prep cartridge Protein C8 (2 units) + UP-C-1000 holder
UP-C-360-K16	Semi-Prep cartridge Protein C18 (2 units) + UP-C-1000 holder
UP-C-360-K17	Semi-Prep cartridge Peptide C18 (2 units) + UP-C-1000 holder
UP-C-360-K18	Semi-Prep cartridge Mediterranean Sea 18 (2 units) + UP-C-1000 holder
UP-C-360-1	Semi-Prep cartridge ODS (2 units)
UP-C-360-2	Semi-Prep cartridge Si (2 units)
UP-C-360-3	Semi-Prep cartridge C8 (2 units)
UP-C-360-4	Semi-Prep cartridge NH2 (2 units)
UP-C-360-6	Semi-Prep cartridge CN (2 units)
UP-C-360-13	Semi-Prep cartridge Protein C4 (2 units)
UP-C-360-14	Semi-Prep cartridge Protein C8 (2 units)
UP-C-360-16	Semi-Prep cartridge Protein C18 (2 units)
UP-C-360-17	Semi-Prep cartridge Peptide C18 (2 units)
UP-C-360-18	Semi-Prep cartridge Mediterranean Sea 18 (2 units)

Spares for Guard Column cartridges

Reference	Description
UP-C-1030	Stainless steel frit 2 µm
UP-C-1031	Titanium frit 2 µm

Preparative Guard Column

- Valuable prep column protection, 20-50mm ID
- Low Pressure Drop
- High performance sample distribution mechanism



Reference	Description
TR-C-260	Preparative Holder
TR-C-260-K1	Prep cartridge ODS (2 units) + TR-C-260 Preparative Holder
TR-C-260-K2	Prep cartridge Peptide C18 (2 units) + TR-C-260 Preparative Holder
TR-C-260-K3	Prep cartridge C8 (2 units) + TR-C-260 Preparative Holder
TR-C-260-K4	Prep cartridge NH2 (2 units) + TR-C-260 Preparative Holder
TR-C-260-K6	Prep cartridge CN (2 units) + TR-C-260 Preparative Holder
TR-C-260-K13	Prep cartridge Protein C4 (2 units) + TR-C-260 Preparative Holder
TR-C-260-K14	Prep cartridge Protein C8 (2 units) + TR-C-260 Preparative Holder
TR-C-260-K16	Prep cartridge Protein C18 (2 units) + TR-C-260 Preparative Holder
TR-C-260-K17	Prep cartridge Si (2 units) + TR-C-260 Preparative Holder
TR-C-260-K18	Prep cartridge Mediterranean Sea 18 (2 units) + TR-C-260 Preparative Holder
TR-C-260-1	Prep cartridge ODS (2 units)
TR-C-260-2	Prep cartridge Peptide C18 (2 units)
TR-C-260-3	Prep cartridge C8 (2 units)
TR-C-260-4	Prep cartridge NH2 (2 units)
TR-C-260-6	Prep cartridge CN (2 units)
TR-C-260-13	Prep cartridge Protein C4 (2 units)
TR-C-260-14	Prep cartridge Protein C8 (2 units)
TR-C-260-16	Prep cartridge Protein C18 (2 units)
TR-C-260-17	Prep cartridge Si (2 units)
TR-C-260-18	Prep cartridge Mediterranean Sea 18 (2 units)

Iso-Prep™ Filter for Preparative Columns



- Economical protection for preparative HPLC column and injector
- Precolumn/Inline filter functionality
- Stable to 8,000 psi
- Replaceable filters

Reference	Description
TR-C-260-F	In Line Filter
TR-C-260-FX	Replacement Filter (10 units)