

## Separations | Trap column

Optimized for HDX workflows

ProDx consumables are specifically designed and developed for use with the LEAP HDX platform.

ProDx trap columns are optimized for maximum recovery of peptide fragments, efficient desalting and low backpressures during the digestion and elution processes of HDX runs.

While many columns used for HDX trapping are not designed for use with low temperature HDX systems, ProDx trap columns are designed to operate down to 0°C, with consistent recovery, and demonstrate reduced backpressure at standard conditions of 200  $\mu$ L/min, 100% Aqueous and 0°C, lowering instances of leakage and need for troubleshooting.

ProDx trap columns are pre-configured with PEEKsil® lines for ease of use, reducing the number of fittings needed in the system, preventing issues that commonly occur when relying on other columns with multiple connections.

To ensure confidence in your data, combine the ProDx Protease and trap columns for your HDX work.

### Features and benefits

- High recovery of peptide fragments generated by inline digestion
- Does not interfere with analytical separation
- Low temperature operation optimized at 0°C
- Lower carryover and increased desalting efficiency
- PEEKsil lines for reduced backpressure and leakage
- End frits designed to prevent rapid blocking by intact proteins and aggregates
- Phase and pore size to suit your analysis

### Recommended applications

Automated Hydrogen-Deuterium Exchange (HDX) experiments using the LEAP HDX platform.

### Product specifications

ProDx columns were developed specifically for use with the LEAP HDX system. ProDx trap columns are designed to protect the ProDx analytical column.

- ID configuration: 0.5 mm
- Length configuration: 20 mm

Currently available in C8 Analog\*, with performance similar to C18 materials, suitable for reversed-phase separation of biomolecules such as proteins and peptides.



### Fittings for ProDx trap columns

Choice of fittings available with ProDx trap columns, for low to ultra high pressure applications.

ProteCol® PEEK Fingertight fittings are precision manufactured to complement your HPLC needs.

ProteCol® PEEK Fingertight HPLC fittings	Pressure rating	Maximum operating pressure rating when used with ProDx trap columns
1/16" to 10-32 UNF (long)	5,000 psi (345 bar)	5,000 psi (345 bar)
1/32" to 6-40 UNF	2,750 psi (190 bar)	2,750 psi (190 bar)



PEEKLoK™ UHPLC fittings are designed specifically for PEEKsil tubing: reliable, affordable, and easy to use, holding up to 22,000 psi; or up to 15,000 psi when used with ProDx trap columns.

PEEKLoK™ UHPLC fittings	Pressure rating	Maximum operating pressure rating when used with ProDx trap columns
1/16" to 10-32 UNF	22,000 psi (>1,500 bar)	15,000 psi (1,000 bar)
1/32" to 6-40 UNF	22,000 psi (>1,500 bar)	15,000 psi (1,000 bar)



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