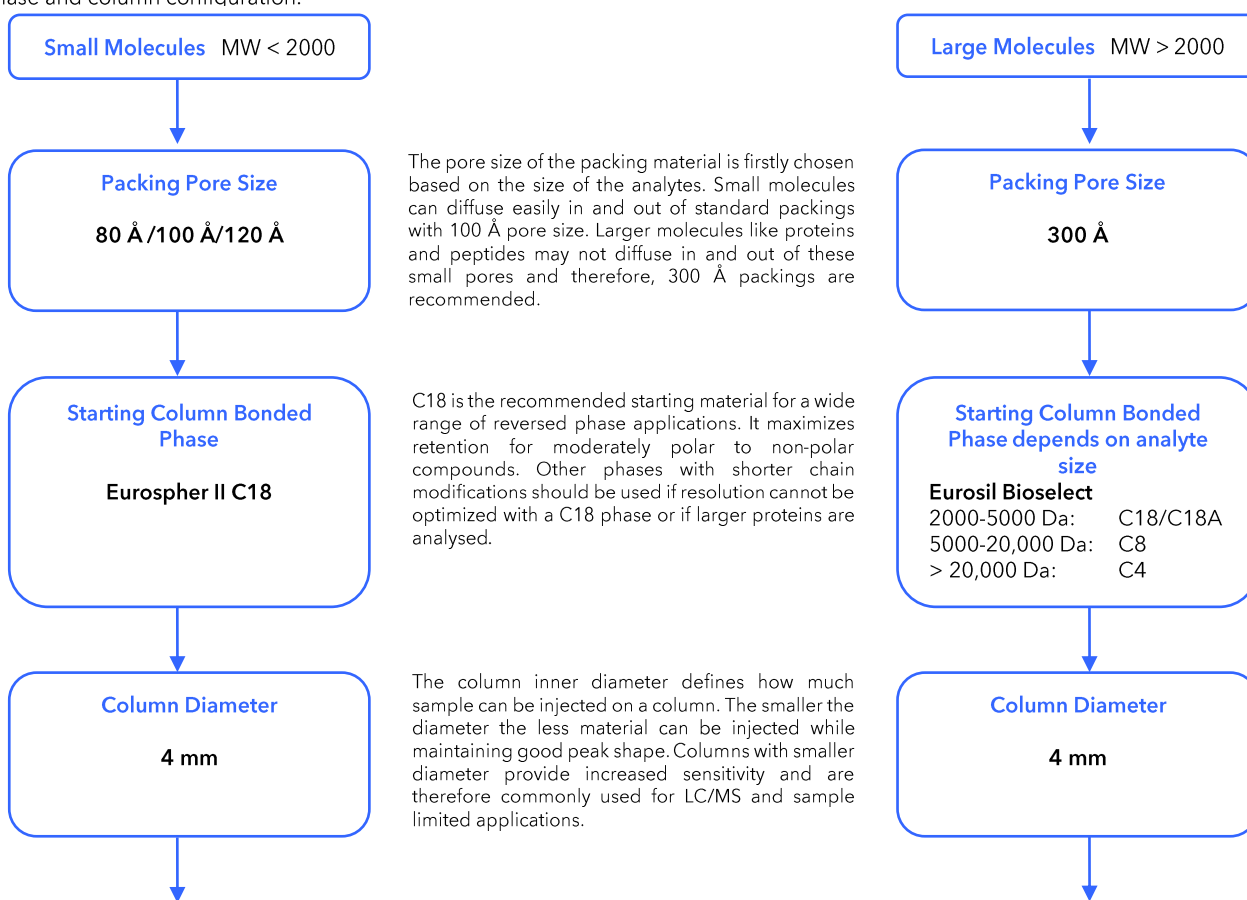


## KNAUER HPLC Column Selection Guide

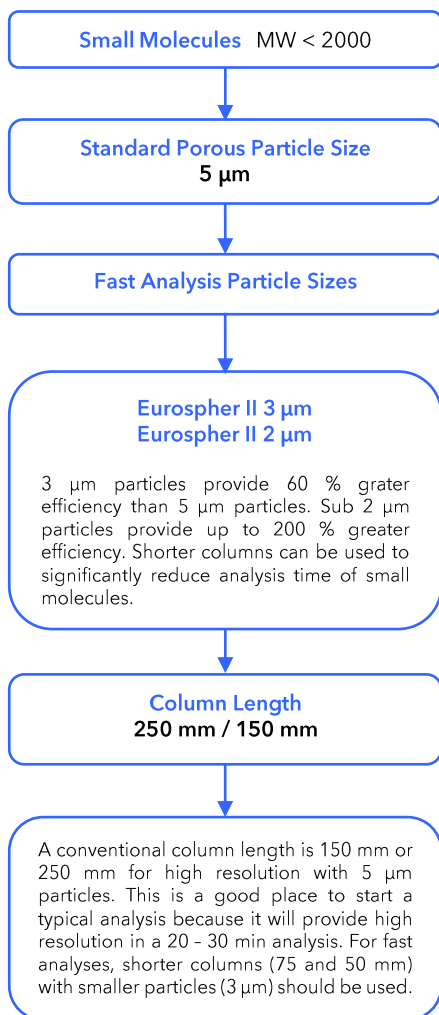
### KNAUER HPLC and UHPLC Columns Selection Flow Chart for Small and Large Molecules

Reversed-phase HPLC and UHPLC are still some of the most often used key analysis techniques that can be applied for the determination of ionic and non-ionic analytes. Therefore, this KNAUER Columns Selection Guide will focus on reversed-phase columns. Just follow the outline below for the easy selection of a reversed-phase column for method development.

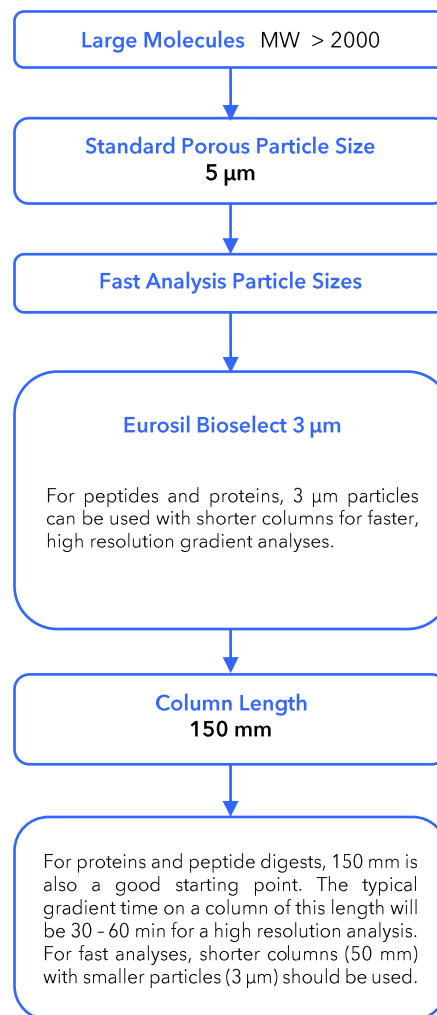
This flow chart provides information on choosing an initial column for method development of small molecule and protein or peptide samples including decisions on the stationary phase and column configuration.



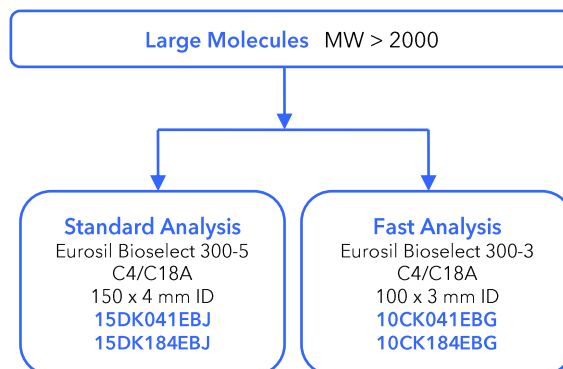
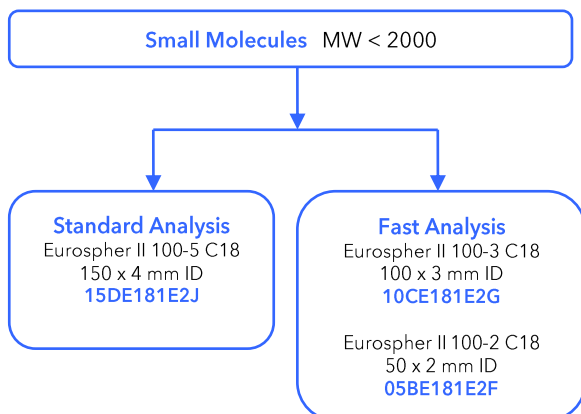
Column Type	Inner Diameter [mm]	Sample Load	Typical Flow Rate [ml/min]	Increased Sensitivity	Applications
Analytical	4.0 / 4.6	0.1 - 1.5 mg	0.5 - 3		Standard separations
Solvent Saver	3.0	150 - 500 µg	0.3 - 1.5	+	Save solvent, used in standard HPLC system
Narrow Bore	2.0	50 - 120 µg	0.1 - 0.5	++	High sensitivity, limited sample, UHPLC, LC/MS, save solvent
Semi Prep	8 / 16	1 - 10 mg	5 - 20		mg preparative separations
Preparative	20 - 62	20 - 250 mg	20 - 100		Hundreds of mg up to 1 g



For classical analyses of small molecules, the standard particle size is 5 µm. Smaller particle sizes are available and they provide higher efficiency and higher resolution. They are also available in short column lengths.



## Starting Column Choices



### Contact information

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