CREATIVE BIOMART®
Chromatography

Procainamide Sepharose 4 Fast Flow

Product Information

Cat#No#	Pr-379C

Description

Procainamide Sepharose 4 Fast Flow is an affinity medium designed to purify butyrylcholinesterase, a plasma protein involved in the regeneration of synapses of the nervous system. Lack of butyrylcholinesterase increases sensitivity to succinyl choline exposure. There is also strong evidence that butyrylcholinesterase is the major detoxicating enzyme of cocaine.

Characteristic

Long spacer arm makes ligand easily available for binding target molecules.
Excellent scalability.
Ideal for industrial purification of butyrylcholinesterase.

Maximum operating pressure

Base matrix: 150-250 cm/h, 100 kPa, XK 50/60 column, bed height 25 cm.

Ligand Coupling Method

Amide linkage

Matrix

4% cross-linked agarose

Particle Size

45 µm-165 µm

Average particle size

90 µm

Ligand

Procainamide

Ligand density

Approx. 23 µmol/ml drained medium.

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Coupling chemistry
Amide linkage
Recommended flow rate
150 to 250 cm/h, 25 cm bed height, 0.1 MPa distilled water in an XK 50 column.
Recommended column height
25 cm
Chemical stability
Stable to commonly used aqueous buffers: 0,1 M NaOH, 6 M guanidine hydrochloride.
pH working range
2–12
CIP stability
1–14
Cleaning-in-place
A general recommendation is to use a guanidine hydrochloride solution to remove precipitated or denatured substances. For hydrophobic-bound substances, a non-ionic detergent or ethanol is recommended. Different concentrations of sodium hydroxide can also be used, but ensure that you keep the contact time as short as possible at higher concentrations.
Sanitization
Combinations of sodium hydroxide and 20% ethanol can be efficient for sanitization. Prolonged exposure to pH lower than 2 should be avoided as the matrix decomposes at low pH.
Pack size
100 mL
BioProcess resin
No

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