

Recombinant Human Neuron-specific Enolase

Catalog No: #AP60421



Package Size: #AP60421-1 5ug #AP60421-2 100ug #AP60421-3 500ug

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Description

Product Name	Recombinant Human Neuron-specific Enolase
Host Species	Escherichia coli.
Purification	> 96 % by SDS-PAGE and HPLC analyses.
Calculated MW	Approximately 47.1 kDa, a single non-glycosylated polypeptide chain containing 433 amino acids.
Target Sequence	SIEKIWAREI LDSRGNPTVE VDLTYAKGLF RAAVPSGAST GIYEALRLD GDKQRYLGKG VLKAVDHINS TIAPALISSG LSVVEQEKLD NLMLELDGTE NKSFKGANAI LGVSLAVCKA GAAERELPLY RHIAQLAGNS DLILPVPAPFN VINGGSHAGN KLAMQEFMIL PVGAESFRDA MRLGAEVYHT LKGVIKDKYG KDATNVGDEG GFAPNILENS EALELVKEAI DKAGYTEKIV IGM DVAAEF YRDGKYDLDF KSPTDPSRYI TGDQLGALYQ DFVRDYPVVS IEDPFDQDDW AAWSKFTANV GIQIVGDDLT VTNPKRIERA VEEKACNCLL LKVNQIGSVT EAIQACKLAQ ENGWGMVMSH RSGETEDTFI ADLVVGLCTG QIKTGAPCRS ERLAKYNQLM RIEEELGDEA RFAGHNFRNP SVL
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4, with 5 % Trehalose.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.- 12 months from date of receipt, -20 to -70 °C as supplied.- 1 month, 2 to 8 °C under sterile conditions after reconstitution.- 3 months, -20 to -70 °C under sterile conditions after reconstitution.

Background

Neuron-specific Enolase (Enolase 2) is a 47.1 kDa member of the Enolase family of enzymes. It is expressed in developing neurons and glia, is known to catalyze the generation of phosphoenolpyruvate, and is suggested to possess neurotrophic activity for neurons, likely through an extracellular mechanism. Human Neuron-specific Enolase is 433 amino acids (aa) in length. The enzymatic site spans most of the length of the molecule. Neuron-specific Enolase exists as both a noncovalently-linked homodimer, or heterodimer with alpha-enolase. Full-length human Enolase 2 shares 99% aa identity with both murine and canine Enolase 2. It shares 83 % aa identity with human enolases 1 and 3.

Note: This product is for in vitro research use only