
Product Data Sheet

Product Name: TH Mouse
 Cat. No.: GP22293
 Batch No.: 1

Product Data

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|---------------------|---|--------------------|-------------------------|
| Purity | >98% | Source | Sf9, Baculovirus cells. |
| Physical Appearance | solid | Shipping Condition | Shipped with Ice Packs. |
| Synonyms | Tyrosine3-monoxygenase; Tyrosine 3-hydroxylase; TH. | | |
| Amino Acid Sequence | ADPMPTPSAS SPQPKGFRRAVSEQDTKQAE AVTSPRFIGR RQSLIEDARK EREAAAAAAAA AAVASAEPGN PLEAVVFEER DGNVNLNLLFSLRGTKPSSL SRALKVFETF EAKIHHLETR PAQRPLAGSP HLEYFVRFEV PSGDLAALLS SVRRVSDDVRSAREDKVPWF PRKVSELDKC HHLVTKFDPD LDLDHPGFSD QAYRQRRKLI AEIAFQYKQG EIPHVEYTKEEIATWKEVY ATLKGLYATH ACREHLEAFQ LLERYCGYRE DSIPQLEDVS HFLKERTGFQ LRPVAGLLSARDFLASLAFR VFQCTQYIRH ASSPMHSPEP DCHELLGHV PMLADRTFAQ FSQDIGLASL GASDEEIEKLSTVYWFTVEF GLCKQNGELK AYGAGLLSSY GELLHSLSEE PEVRAFDPDT AAVQPYQDQT YQPVYFVSESFSDAKDKLRN YASRIQRPFS VKFDPYTLAI DVLDSPTIR RSLEGVQDEL HTLTQALSAI SHHHHHH. | | |
| Formulation | TH protein solution (0.25mg/ml) containing PhosphateBuffered Saline (pH 7.4) and 10% glycerol. | | |

Introduction

Tyrosine3-monoxygenase (Th), is a rate-limiting enzyme in catecholamine synthesis. Th utilizes tetrahydrobiopterin as well as molecular oxygen to convert tyrosine to DOPA. Th regulates dopamine (DA) neurotransmission at the biosynthesis and reuptake steps. Th takes a vital part in the physiology of adrenergic neurons. Furthermore, Th effect overexpression in lymphocytes on the differentiation as well as function of Thelper cells.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

TH Mouse Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 507 amino acids (1-498a.a.) and having a molecular mass of 57.0kDa (Molecular size on SDS-PAGE will appear at approximately 50-70kDa). TH is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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