

Product information

Th, 1-498aa

Mouse, His-tagged, Recombinant, Insect cell

Cat. No. IBATGP3438

Full name: Tyrosine 3-monooxygenase

NCBI Accession No.: NP_033403

Synonyms: Th, tyrosine hydroxylase

Description: Th, also known as tyrosine 3-monooxygenase, is a rate-limiting enzyme in catecholamine synthesis. It uses tetrahydrobiopterin and molecular oxygen to convert tyrosine to DOPA. It regulates dopamine (DA) neurotransmission at the biosynthesis and reuptake steps. It plays an important role in the physiology of adrenergic neurons. It effects overexpression in lymphocytes on the differentiation and function of T helper cells. Recombinant mouse Th, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Form: Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

Molecular Weight: 57.0kDa (507aa)

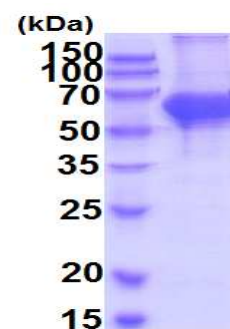
50-70kDa (SDS-PAGE under reducing conditions)

Predicted N terminal: Ala

Purity: > 90% by SDS - PAGE.

Concentration: 0.25mg/ml (determined by Absorbance at 280nm)

Endotoxin Level: < 1.0 EU per 1µg of protein (determined by LAL method)



15% SDS-PAGE (3ug)

Sequences of amino acids:

ADPMPTPSAS SPQPKGFRRA VSEQDTKQAE AVTSPRF IGR RQSLIEDARK EREAAAAA AAVASAEPGN PLEAVVFEER DGNVAVNLLF
SLRGTKPSSL SRALKVFETF EAKIHLETR PAQRPLAGSP HLEYFVRFEV PSGDLAALLS SVRRVSDOVR SAREDKVPWF PRKVSELDKC
HHLVTKFDPD LDLDHPGFSD QAYRQRRKLI AEIAFYKQKG EPIPHVEYTK EEIATWKEVY ATLKGLYATH ACREHLEAFQ LLERYCGYRE
DSIPQLEDVS HFLKERTGFQ LRPVAGLLSA RDLASLAFR VFQCTQYIRH ASSPMHSPEP DCHELLGHV PMLADRTFAQ FSQDIGLASL
GASDEEIEKL STVYWFTEF GLCKQNGELK AYGAGLLSSY GELLHSLSEE PEVRAFDPDT AAVQPYQDQT YQPVYFVSES FSDAKDKLRN
YASRIQRPFS VKFDPYTLAI DVLDSPTIR RSLEGVQDEL HTLTQALSAI SHHHHHH

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



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Product information

General references:

Yamada K., *et al.* (1992) *Histochemistry*. 97:201-206.

Daubner SC., *et al.* (2011) *Arch Biochem Biophys*. 508:1-12.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.
Avoid repeated freezing and thawing cycles.

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