



Human TH peptide (DAG-P2033)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	The protein encoded by this gene is involved in the conversion of tyrosine to dopamine. It is the rate-limiting enzyme in the synthesis of catecholamines, hence plays a key role in the physiology of adrenergic neurons. Mutations in this gene have been associated with autosomal recessive Segawa syndrome. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Jul 2008]
Specificity	Mainly expressed in the brain and adrenal glands.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the biopterin-dependent aromatic amino acid hydroxylase family.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	TH tyrosine hydroxylase [Homo sapiens (human)]
Official Symbol	TH
Synonyms	TH; tyrosine hydroxylase; TYH; DYT14; DYT5b; tyrosine 3-monooxygenase; dystonia 14; tyrosine 3-hydroxylase;
Entrez Gene ID	7054
mRNA Refseq	NM_000360.3

Protein Refseq	NP_000351.2
UniProt ID	P07101
Chromosome Location	11p15.5
Pathway	ATF-2 transcription factor network, organism-specific biosystem; Alcoholism, organism-specific biosystem; Alcoholism, conserved biosystem; Alpha-synuclein signaling, organism-specific biosystem; Amine-derived hormones, organism-specific biosystem; Amphetamine addiction, organism-specific biosystem; Amphetamine addiction, conserved biosystem; Biogenic Amine Synthesis, organism-specific biosystem; Catecholamine biosynthesis, organism-specific biosystem; Catecholamine biosynthesis, tyrosine => dopa
Function	amino acid binding; dopamine binding; ferric iron binding; ferrous iron binding; oxygen binding; protein binding; protein domain specific binding; tetrahydrobiopterin binding; tyrosine 3-monooxygenase activity; tyrosine 3-monooxygenase activity;