

Recombinant Human Tryptophan 5-Hydroxylase 2/TPH2 Protein(N-6His)

Cat.NO.: TP05813

3th Edition

Synonyms: Tryptophan 5-Hydroxylase 2; Neuronal Tryptophan Hydroxylase; Tryptophan 5-Monooxygenase 2; TPH2; NTPH

Description: Tryptophan 5-hydroxylase 2 (TPH2) is an isozyme member of the bipterin-dependent aromatic amino acid hydroxylase family. TPH2 is primarily expressed in the serotonergic neurons of the brain, with the highest expression found in the raphe nucleus of the midbrain. TPH2 catalyzes the first and rate limiting step in the biosynthesis of serotonin, an important hormone and neurotransmitter. Genetic variation in TPH2 may influence susceptibility to major depressive disorder (MDD). Defects in TPH2 are the cause of psychiatric diseases such as bipolar affective disorder and major depression.

Form: PBS

Molecular Weight: 58.8 kDa

Sequences: Met 1-Ile496

Purity: > 95% by HPLC

Concentration:

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

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.