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## Data Sheet

### TPH1

Human, recombinant, N-terminal His-tag

**Catalog #:** 71192

**Lot #:** 141009-1      **Conc.:** 1.54 mg/ml

**Formulated in:** 40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 0.04% Tween-20, 20% glycerol, 3 mM DTT and 170 mM imidazole.

**Stability:** >6 months at  $-80^{\circ}\text{C}$ . *Avoid freeze/thaw cycles. Storing diluted enzyme is not recommended, if necessary, use carrier protein (BSA 0.1 – 0.5%).*

**References:**

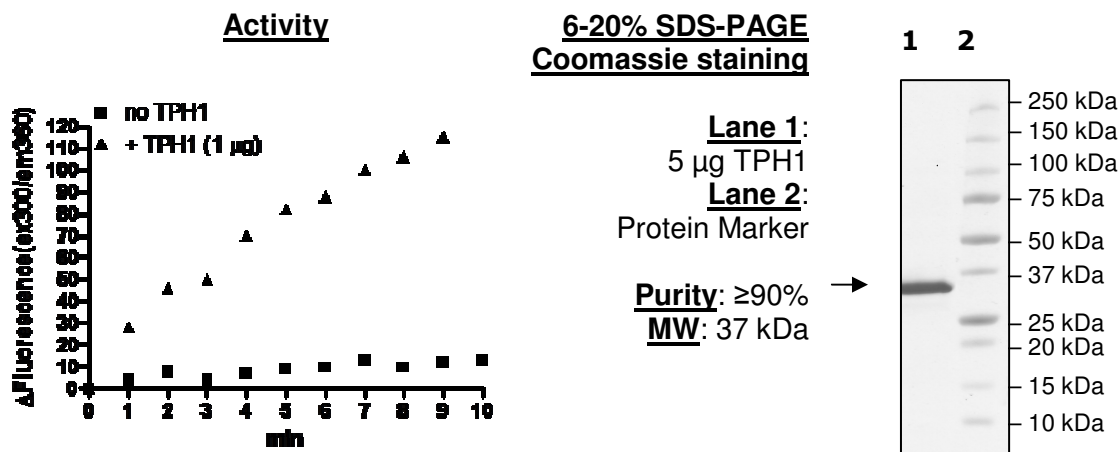
1. Cote, F., *et al.*, *Proc. Nat. Acad. Sci. USA*. 2003; **100(23)**: 13525-13530.
2. Walther, D.J., *et al.*, *Science*. 2003; **299**: 76.

**Description:** Human tryptophan 5-hydroxylase 1 (TPH1) also known as TRPH, GenBank Accession No. NM\_004179, a.a. 105-420 with an N-terminal His-tag, MW = 37 kDa, expressed in an *E. coli* cell expression system.

**Assay Conditions:** Reaction was performed at room temperature in assay buffer containing 50 mM MOPS, pH 7.0, 60  $\mu\text{M}$  tryptophan, 100 mM ammonium sulfate, 100  $\mu\text{M}$  ferrous ammonium sulfate, 0.5 mM TCEP, 0.3 mM 6-methyl tetrahydropterin, 0.05 mg/ml catalase, 1 mM DTT and TPH1. Fluorescence signal was measured at Em360nm/Ex300nm.

**Application:** Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

### Quality Assurance



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