



# SZABO SCANDIC

Part of Europa Biosite

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Data Sheet

### TPH2

Human, recombinant, N-terminal His-tag

**Catalog #:** 71193

**Lot #:** 140902-1      **Conc.:** 1.08 mg/ml

**Formulated in:** 40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 0.04% Tween-20, 20% glycerol, and 160 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:**

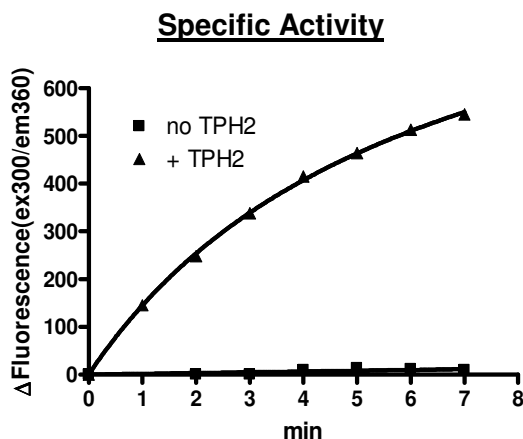
1. Zill, P., *et al.*, *Mol. Psychiatr.* 2004; **9**: 1030-1036.
2. Sheehan, K., *et al.*, *Mol. Psychiatr.* 2005; **10**: 944-949.

**Description:** Human tryptophan hydroxylase 2 (TPH2) also known as neuronal tryptophan hydroxylase, GenBank Accession No. NM\_173353, a.a. 151-466 (end) 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 TPH2. Fluorescence signal was measured at Em360nm/Ex300nm.

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

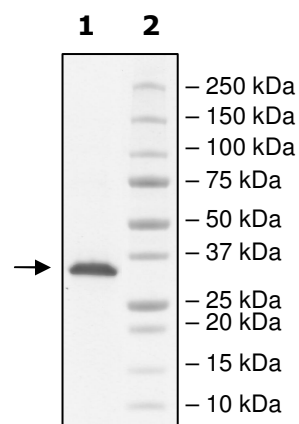
### Quality Assurance



**6-20% SDS-PAGE**  
**Coomassie staining**

**Lane 1:**  
5  $\mu\text{g}$  TPH2  
**Lane 2:**  
Protein Marker

**Purity:**  $\geq 90\%$   
**MW:** 37 kDa



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