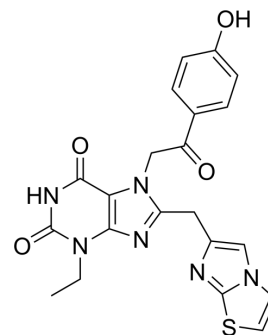


TPH1-IN-1

| | |
|--------------------|---|
| Cat. No.: | HY-156093 |
| Molecular Formula: | C ₂₁ H ₁₈ N ₆ O ₄ S |
| Molecular Weight: | 450.47 |
| Target: | Tryptophan Hydroxylase |
| Pathway: | Metabolic Enzyme/Protease |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | |
|---------------------------|--|
| Description | TPH1-IN-1 (compound 40) is a xanthine derivative and an inhibitor of tryptophan hydroxylase TPH1 (IC ₅₀ : 110.1 nM). TPH1-IN-1 has good in vitro activity and liver microsome stability, and effectively inhibits adipocyte differentiation of T3-L1 cells ^[1] . |
| IC ₅₀ & Target | IC ₅₀ : 110.1 nM (TPH1) ^[1] |

REFERENCES

[1]. Yoon J, et al. Synthesis and biological evaluation of xanthine derivatives with phenacyl group as tryptophan hydroxylase 1 (TPH1) inhibitors for obesity and fatty liver disease. *Bioorg Med Chem Lett.* 2023 Oct 1;94:129461...

Caution: Product has not been fully validated for medical applications. For research use only.

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