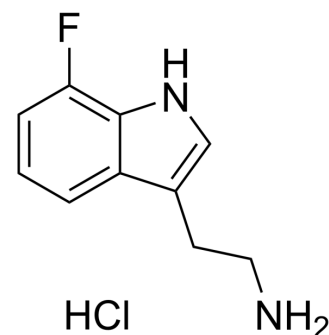


## 7-Fluorotryptamine hydrochloride

<b>Cat. No.:</b>	HY-117295A
<b>CAS No.:</b>	159730-09-3
<b>Molecular Formula:</b>	C <sub>10</sub> H <sub>12</sub> ClFN <sub>2</sub>
<b>Molecular Weight:</b>	214.67
<b>Target:</b>	Arrestin
<b>Pathway:</b>	GPCR/G Protein
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 125 mg/mL (582.29 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mg	5 mg	10 mg
1 mM			4.6583 mL	23.2916 mL	46.5831 mL
5 mM			0.9317 mL	4.6583 mL	9.3166 mL
10 mM			0.4658 mL	2.3292 mL	4.6583 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

7-Fluorotryptamine hydrochloride is a potent agonist of GPRC5A. 7-Fluorotryptamine hydrochloride induces GPRC5A-mediated  $\beta$ -arrestin recruitment. 7-Fluorotryptamine hydrochloride can be used for research of immune and cancer signaling<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

GPRC5A<sup>[1]</sup>

#### In Vitro

7-Fluorotryptamine (100  $\mu$ M) hydrochloride induces  $\beta$ -arrestin recruitment by GPRC5A in the PRESTO-Tango assay<sup>[1]</sup>.  
7-Fluorotryptamine (50  $\mu$ M, 8 h) hydrochloride together with TNF $\alpha$  down-regulates some TNF $\alpha$ -induced genes (eg: IL41A, CXCL10, CSF2) in WT and GPRC5A-KO cells<sup>[1]</sup>.  
7-Fluorotryptamine (0-100  $\mu$ M, 16 h) hydrochloride exhibits no toxicity for mammalian cells (HTLA, HT-29 cell)<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Zhao X, et al. Chemoproteomics reveals microbiota-derived aromatic monoamine agonists for GPRC5A. Nat Chem Biol. 2023 May 29.

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

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