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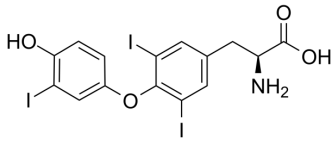
Liothyronine (GMP)

Cat. No.:	HY-A0070AG
CAS No.:	6893-02-3
Molecular Formula:	$C_{15}H_{12}I_3NO_4$
Molecular Weight:	650.97
Target:	Thyroid Hormone Receptor
Pathway:	Vitamin D Related/Nuclear Receptor
Storage:	4°C, sealed storage, away from moisture and light



BIOLOGICAL ACTIVITY

Description	Liothyronine (Triiodothyronine) (GMP) is the Liothyronine (HY-A0070A) produced by using GMP guidelines. GMP small molecules work appropriately as an auxiliary reagent for cell therapy manufacture. Liothyronine is a potent thyroid hormone receptors TRα and TRβ agonist with K_is of 2.33 nM for hTRα and hTRβ, respectively[1].
IC_{50} & Target	TRβ1[1][2]
In Vitro	Liothyronine (GMP) can be used in culture medium for generation of induced pluripotent stem cells from human keratinocytes[1]. Liothyronine (GMP) is necessary in limbal stem cells (LSCs) proliferation and self-renewal[2]. Liothyronine (GMP) (4 nM) promotes cardiac differentiation and maturation of embryonic stem cells[3]. Liothyronine (GMP) (100 Nm, 14 days) promotes electrophysiological maturation of human-induced pluripotent stem cell (hiPSC)-derived cardiomyocytes[4]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Aasen T, et al. Isolation and cultivation of human keratinocytes from skin or plucked hair for the generation of induced pluripotent stem cells. Nat Protoc. 2010 Feb;5(2):371-82.

[2]. Yu M, et al. An important role for adenine, cholera toxin, hydrocortisone and triiodothyronine in the proliferation, self-renewal and differentiation of limbal stem cells in vitro. Exp Eye Res. 2016 Nov;152:113-122.

[3]. CY, et al. Triiodothyronine promotes cardiac differentiation and maturation of embryonic stem cells via the classical genomic pathway. Mol Endocrinol. 2010 Sep;24(9):1728-36.

[4]. Wang L, et al. Triiodothyronine and dexamethasone alter potassium channel expression and promote electrophysiological maturation of human-induced pluripotent stem cell-derived cardiomyocytes. J Mol Cell Cardiol. 2021 Dec;161:130-138.

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

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