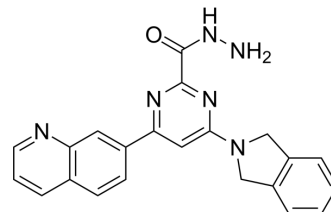


Utrophin modulator 1

Cat. No.:	HY-150077
Molecular Formula:	C ₂₂ H ₁₈ N ₆ O
Molecular Weight:	382.42
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Utrophin modulator 1 is a potent utrophin modulator (upregulates utrophin protein levels), with an EC ₅₀ of 0.11 μM. Utrophin modulator 1 can be used in study of duchenne muscular dystrophy (DMD) ^[1] .	
In Vitro	Utrophin modulator 1 (compound 76) (0.1, 1.0, 10 μM; 24 h) upregulates utrophin protein levels in H2K-mdx cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis ^[1]	
	Cell Line:	H2K-mdx cells
	Concentration:	0.1, 1.0, 10 μM
	Incubation Time:	24 h
	Result:	Increased utrophin protein, which up to 2.5 fold.

REFERENCES

[1]. Chatzopoulou M, et al. Structure-activity relationships of 2-pyrimidinecarbohydrazides as utrophin modulators for the potential treatment of Duchenne muscular dystrophy. *Bioorg Med Chem*. 2022 Sep 1;69:116812.

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

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