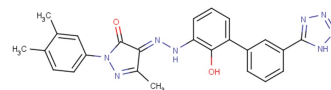


## TPO agonist 1

## Chemical Properties

CAS No.:	1033040-23-1
Formula:	C <sub>25</sub> H <sub>22</sub> N <sub>8</sub> O <sub>2</sub>
Molecular Weight:	466.49
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	TPO agonist 1 is a thrombopoietin agonist. It would be useful as promoters of thrombopoiesis and megakaryocytopoiesis to treat thrombocytopenia.
Targets(IC <sub>50</sub> )	TPO receptor: None
In vivo	The TPO receptor agonists are well-tolerated, though uncertainty remains regarding the risk of thromboembolism and bone marrow fibrosis. Chronic ITP aimed at increasing platelet production through interactions with the TPO receptor on megakaryocytes, and can increase platelet counts, decrease bleeding events, and decrease the need for adjunctive or rescue treatments [2].

## Solubility Information

Solubility	DMSO: 36 mg/mL (77.17 mM) ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.144 mL	10.718 mL	21.437 mL
5 mM	0.429 mL	2.144 mL	4.287 mL
10 mM	0.214 mL	1.072 mL	2.144 mL
50 mM	0.043 mL	0.214 mL	0.429 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Jerome Francis Hayes. Novel processes of making hydroxy-1-azo-derivatives as tpo mimetics. 6 November 2008. WO2008134338A1.
2. Siegal D et al. Thrombopoietin receptor agonists in primary immune thrombocytopenia. et al. Semin Hematol. 2013 Jan;50 Suppl 1:S18-21

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