Efaproxiral sodium

Cat. No.: CAS No.: Molecular Formula:	HY-13619A 170787-99-2 C., H., NNaO.	
Molecular Weight: Target:	363.38 Reactive Oxygen Species	ONa ONa
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-кВ	Н
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

SOLVENT & SOLUBILITY

DMSO : ≥ 39 mg/mL (107.33 mM) H ₂ O : ≥ 33.33 mg/mL (91.72 mM) * "≥" means soluble, but saturation unknown.					
Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
	1 mM	2.7519 mL	13.7597 mL	27.5194 mL	
	5 mM	0.5504 mL	2.7519 mL	5.5039 mL	
	10 mM	0.2752 mL	1.3760 mL	2.7519 mL	
Please refer to the solubility information to select the appropriate solvent.					
1. Add each solvent o Solubility: ≥ 2.08 n	G300 >> 5% Tween-8	0 >> 45% saline			
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.72 mM); Clear solution					
3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.72 mM); Clear solution					
	DMSO : ≥ 39 mg/mL (: H ₂ O : ≥ 33.33 mg/mL (: * "≥" means soluble, I Preparing Stock Solutions Please refer to the so 1. Add each solvent of Solubility: ≥ 2.08 m 2. Add each solvent of Solubility: ≥ 2.08 m 3. Add each solvent of Solubility: ≥ 2.08 m	DMSO : \geq 39 mg/mL (107.33 mM) H ₂ O : \geq 33.33 mg/mL (91.72 mM) * " \geq " means soluble, but saturation unknown. Preparing Stock Solutions 1 mM 10 mM Please refer to the solubility information to select the app 1. Add each solvent one by one: 10% DMSO >> 40% PEC Solubility: \geq 2.08 mg/mL (5.72 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20 Solubility: \geq 2.08 mg/mL (5.72 mM); Clear solution 3. Add each solvent one by one: 10% DMSO >> 90% corr Solubility: \geq 2.08 mg/mL (5.72 mM); Clear solution	DMSO : \geq 39 mg/mL (107.33 mM) H ₂ O : \geq 33.33 mg/mL (91.72 mM) * " \geq " means soluble, but saturation unknown. Preparing Stock Solutions 1 mM 2.7519 mL 2.7519 mL 5 mM 0.5504 mL 10 mM 0.2752 mL Please refer to the solubility information to select the appropriate solvent. 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-8 Solubility: \geq 2.08 mg/mL (5.72 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE- β -CD in saline) Solubility: \geq 2.08 mg/mL (5.72 mM); Clear solution 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: \geq 2.08 mg/mL (5.72 mM); Clear solution	$\begin{array}{l lllllllllllllllllllllllllllllllllll$	

BIOLOGICAL ACTIVITY Description Efaproxiral sodium (RSR13 sodium) is a synthetic allosteric modifier of haemoglobin (Hb), decreases Hb-oxygen (O2) binding affinity and enhances oxygenation of hypoxic tumours during radiation therapy.in vitro: Efaproxiral increases oxygen levels in hypoxic tumor tissues by binding non-covalently to the hemoglobin tetramer and decreasing hemoglobin-oxygen binding affinity. Increasing tumor oxygenation reduces tumor radioresistance. Efaproxiral can enhance the oxygenation of hypoxic tumours and function as a radiation sensitiser, increasing the effectiveness of RT.

Product Data Sheet

RedChemExpress

• J Enzyme Inhib Med Chem. 2021 Dec;36(1):377-383.

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REFERENCES

[1]. Stea B, et al. Efaproxiral red blood cell concentration predicts efficacy in patients with brain metastases. Br J Cancer. 2006 Jun 19;94(12):1777-1784.

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

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