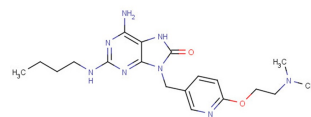


DSR-6434

## Chemical Properties

CAS No.:	1059070-10-8
Formula:	C <sub>19</sub> H <sub>28</sub> N <sub>8</sub> O <sub>2</sub>
Molecular Weight:	400.48
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	DSR-6434 has a strong antitumor effect. DSR-6434 is a potent and selective Toll-like receptor 7 (TLR7) agonist, with EC <sub>50</sub> s of 7.2 nM and 4.6 nM for human and mice TLR7, respectively.
Targets(IC <sub>50</sub> )	Others: None
In vitro	To assess the specificity of DSR-6434 toward TLR7, an NF-κB-driven reporter assay is performed in HEK293 cells engineered to express either hTLR7, TLR8 or TLR9. In this assay, successful binding of DSR-6434 to the specific receptor leads to NF-κB activation. DSR-6434 is capable of stimulating reporter gene activity only in HEK293 cells expressing hTLR7 and not in HEK293 cells expressing the structurally similar hTLR8 or hTLR9.
In vivo	DSR-6434 treatment (Compound 20; 0.1-1 mg/kg; intravenous injection; biweekly; for 4 weeks; B6C3F1 mice) suppresses the lung metastasis significantly.

## Solubility Information

Solubility	DMSO: 250 mg/mL (624.25 mM) ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.497 mL	12.485 mL	24.97 mL
5 mM	0.499 mL	2.497 mL	4.994 mL
10 mM	0.25 mL	1.249 mL	2.497 mL
50 mM	0.05 mL	0.25 mL	0.499 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. Nakamura T, et al. Synthesis and evaluation of 8-oxoadenine derivatives as potent Toll-like receptor 7 agonists with high water solubility. *Bioorg Med Chem Lett*. 2013 Feb 1;23(3):669-72.
2. Adlard AL, et al. A novel systemically administered Toll-like receptor 7 agonist potentiates the effect of ionizing radiation in murine solid tumor models. *Int J Cancer*. 2014 Aug 15;135(4):820-9.

Inhibitors · Natural Compounds · Compound Libraries

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