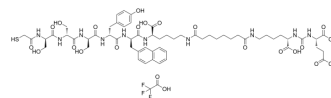


## PSMA I&S TFA

<b>Cat. No.:</b>	HY-148152A
<b>Molecular Formula:</b>	C <sub>61</sub> H <sub>83</sub> F <sub>3</sub> N <sub>10</sub> O <sub>23</sub> S
<b>Molecular Weight:</b>	1413.43
<b>Target:</b>	PSMA
<b>Pathway:</b>	Immunology/Inflammation
<b>Storage:</b>	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



## SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (70.75 mM; Need ultrasonic)																			
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent Concentration</th> <th colspan="3">Mass</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td><b>Preparing Stock Solutions</b> 1 mM</td> <td>0.7075 mL</td> <td>3.5375 mL</td> <td>7.0750 mL</td> </tr> <tr> <td>5 mM</td> <td>0.1415 mL</td> <td>0.7075 mL</td> <td>1.4150 mL</td> </tr> <tr> <td>10 mM</td> <td>0.0707 mL</td> <td>0.3537 mL</td> <td>0.7075 mL</td> </tr> </tbody> </table>	Solvent Concentration	Mass			1 mg	5 mg	10 mg	<b>Preparing Stock Solutions</b> 1 mM	0.7075 mL	3.5375 mL	7.0750 mL	5 mM	0.1415 mL	0.7075 mL	1.4150 mL	10 mM	0.0707 mL	0.3537 mL	0.7075 mL
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	Please refer to the solubility information to select the appropriate solvent.																			
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (1.77 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (1.77 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (1.77 mM); Clear solution</li> </ol>																			

## BIOLOGICAL ACTIVITY

<b>Description</b>	PSMA I&S (TFA) is a precursor of the 99mTc-labeled PSMA-targeting ligand <sup>[1]</sup> .
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## REFERENCES

[1]. Robu S, et, al. Preclinical Evaluation and First Patient Application of 99mTc-PSMA-I&S for SPECT Imaging and Radioguided Surgery in Prostate Cancer. J Nucl Med. 2017 Feb;58(2):235-242.

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

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