

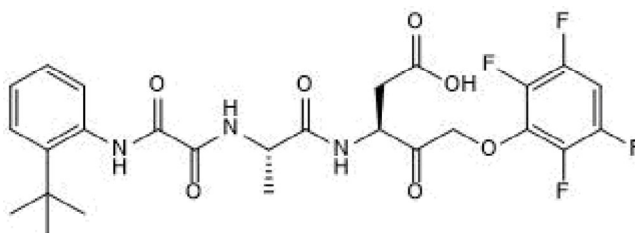
# Certificate of Analysis

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<b>Product Name:</b>	<b>Emricasan</b>	<b>Catalog No.:</b>	<b>7310</b>	<b>Batch No.:</b>	<b>2</b>
<b>CAS Number:</b>	254750-02-2				
<b>IUPAC Name:</b>	<i>N</i> -[2-(1,1-Dimethylethyl)phenyl]-2-oxoglycyl- <i>N</i> -[(1 <i>S</i> )-1-(carboxymethyl)-2-oxo-3-(2,3,5,6-tetrafluorophenoxy)propyl]- <i>L</i> -alaninamide				

## 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>26</sub> H <sub>27</sub> F <sub>4</sub> N <sub>3</sub> O <sub>7</sub>
<b>Batch Molecular Weight:</b>	569.51
<b>Physical Appearance:</b>	White solid
<b>Solubility:</b>	DMSO to 100 mM ethanol to 50 mM
<b>Storage:</b>	Store at -20°C
<b>Batch Molecular Structure:</b>	



## 2. ANALYTICAL DATA

<b>HPLC:</b>	Shows 99.8% purity
<b><sup>1</sup>H NMR:</b>	Consistent with structure
<b>Mass Spectrum:</b>	Consistent with structure
<b>Microanalysis:</b>	

	Carbon	Hydrogen	Nitrogen
Theoretical	54.83	4.78	7.38
Found	54.3	4.86	7.32

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Product Name:** Emricasan

**Catalog No.:** 7310

**2**

**CAS Number:** 254750-02-2

**IUPAC Name:** *N*-[2-(1,1-Dimethylethyl)phenyl]-2-oxoglycyl-*N*-[(1*S*)-1-(carboxymethyl)-2-oxo-3-(2,3,5,6-tetrafluorophenoxy)propyl]-*L*-alaninamide

**Description:**

Emricasan is a potent caspase inhibitor (IC<sub>50</sub> values are 0.3, 0.4, 2, 4, 6, 6 and 20 nM for caspase-9, -1, -3, -6, -7, -8, and -2, respectively). Emricasan is antiapoptotic by inhibiting caspase 8. It also preserves cell viability after infection with several strains of Zika. Emricasan promotes survival of pluripotent stem cells in culture when used in combination with Chroman-1 (Cat. No. 7163), trans-ISIRIB (Cat. No. 5284) and Polyamine Supplement x1000 (lyophilized) (Cat. No. 7739), a combination known as CEPT. When used as part of the CEPT cocktail, Emricasan improves survival of differentiated cells following cryopreservation. The compound... Please see product specific page on www.tocris.com for full description.

**Physical and Chemical Properties:**

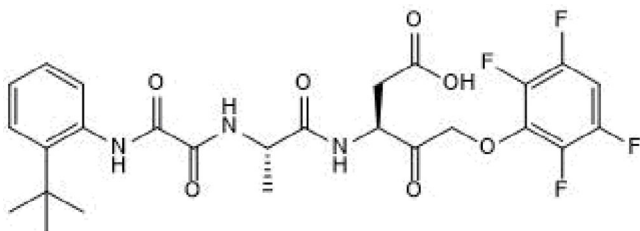
Batch Molecular Formula: C<sub>26</sub>H<sub>27</sub>F<sub>4</sub>N<sub>3</sub>O<sub>7</sub>

Batch Molecular Weight: 569.51

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**References:**

**Chen et al** (2021) A versatile polypharmacology platform promotes cytoprotection and viability of human pluripotent and differentiated cells. *Nat.Methods* **18** 528. PMID: 33941937.

**Canbay et al** (2004) The caspase inhibitor IDN-6556 attenuates hepatic injury and fibrosis in the bile duct ligated mouse. *J.Pharmacol.Exp.Ther.* **308** 1191. PMID: 14617689.

**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 50 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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