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## Product Data Sheet

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Product Name: EC0489  
Cat. No.: GC32401

### Chemical Properties

Cas. No. 1096702-14-5

SMILES [{Ggu}-QEQQC]

Formula C<sub>111</sub>H<sub>156</sub>N<sub>22</sub>O<sub>43</sub>S<sub>2</sub>

M.Wt 2550.68

Solubility Soluble in DMSO

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

### Background

EC0489, a conjugate of folic acid and desacetyl vinblastine hydrazide, is a high-affinity ligand for the folate receptor (FR). Refractory or metastatic Tumor[1]. Small molecule-drug conjugate (SMDC)[2].

The affinity of EC0489 toward the folate receptor (FR) is approximately half of that of folic acid (relative affinity 0.50)[1]. FR-positive KB cells are highly sensitive to EC0489 with an IC<sub>50</sub> of 5 nM[1].

EC0489 has a favorable toxicology profile in Rats. EC0489 (2, 3, and 4 μmol/kg) has antitumor activity against mice KB tumor models in a dose-dependent manner[1].

[1]. Leamon CP, et al. Reducing undesirable hepatic clearance of a tumor-targeted vinca alkaloid via novel saccharopeptidic modifications. J Pharmacol Exp Ther. 2011 Feb;336(2):336-43. [2]. Zhuang C, et al. Small molecule-drug conjugates: A novel strategy for cancer-targeted treatment. Eur J Med Chem. 2019 Feb 1;163:883-895.

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

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