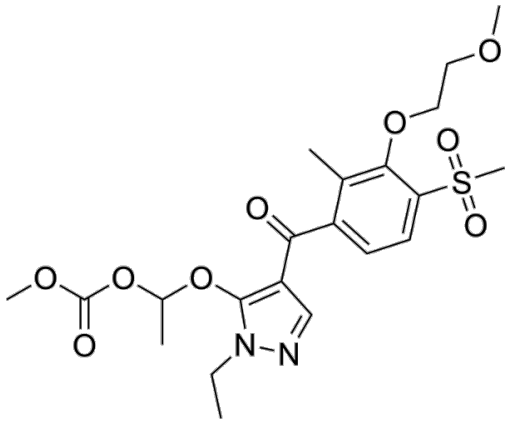
Product Data Sheet

Product Name: Tolpyralate
Cat. No.: GC81451

Chemical Properties

Cas. No.	1101132-67-5		
Formula	$C_{21}H_{28}N_2O_9S$	M.Wt	484.52
Solubility		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

Tolpyralate is a selective post-emergence herbicide and corn Herbicide. Tolpyralate inhibits 4-HPPD. Tolpyralate exhibits herbicidal activity against a variety of weeds, including the glyphosate-resistant weed Amaranthus tuberculatus [1].

In Vitro, Tolpyralate (30-50 g a.i./ha) provides 81-100% control efficacy against most annual grassy and broadleaf weeds in field-grown corn, and only exhibits moderate control efficacy (52-63%) against Ipomoea hederacea[1].

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

[1]. Tsukamoto M, et al. Discovery and structure optimization of a novel corn herbicide, tolpyralate. J Pestic Sci. 2021;46(2):152-159.

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