



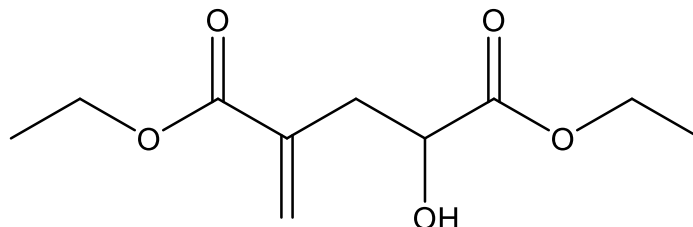
**Catalog # 10-4041**

**TETi76 ester**

CAS# 1451750-73-4

Diethyl 2-hydroxy-4-methylenepentanedioate

Lot # FBA8191



TETi76 ester is a cell permeable inhibitor of TET dioxygenases ( $IC_{50}$ s: TET1 = 1.5  $\mu$ M; TET2 = 9.4  $\mu$ M; TET3 = 8.8  $\mu$ M), indirect (*via* cytosine hydroxymethylation) erasers of DNA methylation.<sup>1,2</sup> TET2 is frequently mutated in myeloid neoplasms – TET2 inhibition with TETi76 restricted clonal outgrowth and induced apoptosis of TET2 mutants but not normal hematopoietic precursor cells *in vitro* and *in vivo*.

- 1) Guan *et al.* (2021), *A Therapeutic Strategy for Preferential Targeting of TET2-Mutant and TET Dioxygenase-Deficient Cells in Myeloid Neoplasms*; Blood Cancer Discov., **2** 146
- 2) Guan *et al.* (2021), *Therapeutic Targeting of TET-Dioxygenase Deficiency in Myeloid Malignancies*; Blood, **138** 3985

#### **PHYSICAL DATA**

|                        |   |
|------------------------|---|
| Molecular Weight:      | 216.23  |
| Molecular Formula:     | C <sub>10</sub> H <sub>16</sub> O <sub>5</sub>  |
| Purity:                | >98% by TLC   |
|                        | NMR: (Conforms)   |
| Solubility:            | Soluble in DMSO (>100 mg/ml)  |
| Physical Description:  | Colorless oil   |
| Storage and Stability: | Store as supplied, desiccated at -20°C for up to two years from the date of purchase.<br>Solutions in DMSO may be stored at -20°C for up to 3 months. |

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

[www.focusbiomolecules.com](http://www.focusbiomolecules.com)