

Product Datasheet

MK0941

Catalog No. **BP-02505** · CAS **1137916-97-2** · Form **free base** · Physical state **solid** · Color **White to yellow** · Version **1.0** · Revision **2026-09-10**

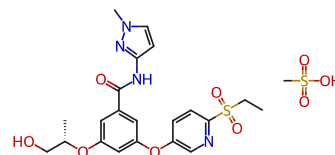
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Target Glucokinase	Research area Metabolic Disease
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Molecular formula **C₂₂H₂₈N₄O₉S₂**

Molecular weight **556.6090**

STRUCTURE



DESCRIPTION

MK-0941 is a selective, orally active, and allosteric glucokinase activator with EC₅₀s of 240 and 65 nM for recombinant human glucokinase in the presence of 2.5 and 10 mM glucose, respectively. MK-0941 activates hexokinase subtype IV. MK-0941 can increase insulin secretion and glucose uptake. MK-0941 can be studied in research for type 2 diabetes .

BIOLOGICAL ACTIVITY

MK-0941 is a potent, orally active and allosteric glucokinase activator, with EC₅₀s of 240 and 65 nM for recombinant human glucokinase in the presence of 2.5 and 10 mM glucose, respectively. MK-0941 has potential in the treatment of type 2 diabetes.

SOLUBILITY

Soluble in DMSO

REFERENCES

- [1]. Eiki J, et al. Pharmacokinetic and pharmacodynamic properties of the glucokinase activator MK-0941 in rodent models of type 2 diabetes and healthy dogs. Mol Pharmacol. 2011 Dec;80(6):1156-65.
- [2]. Meininger, G. E., et al., (2011). Effects of MK-0941, a novel glucokinase activator, on glycemic control in insulin-treated patients with type 2 diabetes. Diabetes care, 34(12), 2560–2566.

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