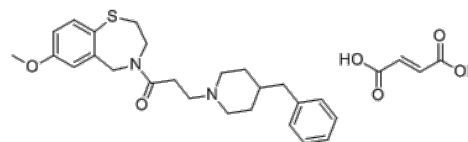


Product Name : JTV-519 hemifumarate
Cat. No. : PC-63283
CAS No. : 1435938-25-2
Molecular Formula : C₂₅H₃₂N₂O₂S.1/2C₄H₄O₄
Molecular Weight : 482.64
Target : Calcium Channel
Solubility : 10 mM in DMSO



Biological Activity

JTV-519 hemifumarate (K201) is a Ca²⁺-dependent blocker of **SERCA** and a ryanodine receptor 2 (RyR2) inhibitor. JTV-519 displays Ca(2+)-dependent inhibition of SERCA-dependent ATPase activity with IC₅₀ of 9 μM at 0.25 Ca²⁺ in cardiac muscle.

JTV-519 may prevent abnormal Ca(2+) leak from the sarcoplasmic reticulum (SR) in the ischemic heart and skeletal muscle (SkM) by stabilizing the ryanodine receptors (RyRs; RyR1 and RyR2, respectively).

References

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 Ito K, et al. *Br J Pharmacol*. 2000 Jun;130(4):767-76.
 Nakaya H, et al. *Br J Pharmacol*. 2000 Dec;131(7):1363-72.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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