

Product Name	: Buformin hydrochloride
Synonyms	: NSC 528218; NSC-528218; NSC528218
Cat No.	: M23359
CAS Number	: 1190-53-0
Molecular Formula	: C ₆ H ₁₆ ClN ₅
Formula Weight	: 193.7
Chemical Name	: —
Description	: Buformin hydrochloride is a potent AMPK activator, an oral antidiabetic drug of the biguanide class. Buformin delays the absorption of glucose from the gastrointestinal tract increases insulin sensitivity and glucose uptake into cells and inhibits synthesis of glucose by the liver. Biguanides may antagonize the action of glucagon, thus reducing fasting glucose levels.
Pathway	: Membrane Transporter/Ion Channel
Target	: AMPK
Receptor	: AMPK
Solubility	: DMSO:Soluble
SMILES	: <chem>CCCCN=C(N)N=C(N)N.Cl</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Amanda B Parris, et al. Buformin hydrochloride Inhibits the Stemness of erbB-2-overexpressing Breast Cancer Cells and Premalignant Mammary Tissues of MMTV-erbB-2 Transgenic Mice. J Exp Clin Cancer Res