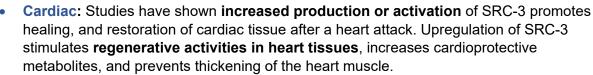


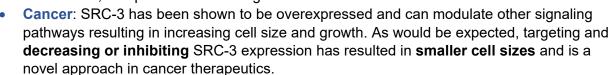
## Novel small molecule activators and inhibitors offer promising therapy potential in cardiac and cancer indications

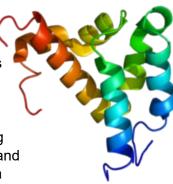


The **steroid receptor coactivator-3 (SRC-3)** is a protein that is required for normal growth in animal cells. Upregulating and downregulating the production of this protein with small molecules can have different effects throughout the body. SRC-3 has been implicated in several diseases such as cancer, metabolic disorders, HIV, neurodegenerative disorders, heart disease, and/or inflammatory diseases.

SRC-3







## **Small Molecule ACTIVATOR**

BLG#18-123



**INDICATIONS:** Heart failure

Potent, selective, **small molecule activator** of steroid receptor co-activators (SRC) as potential therapeutics for preservation, healing, and restoration of cardiac tissue after a heart attack

Our **proprietary MCB-613** compound is **simpler** to manufacture and shown improved outcomes post heart attack in mouse models

- Low toxicity in mouse cells and whole animal
- Compound ideally suited for oral administration
- Encourages tissue regeneration through microvasculature growth

33%

Size reduction in heart enlargement for mice treated with MCB-613 versus the control group

\$22.1 Billion

Market estimates for heart disease and failure sector by 2028 655,000

People die from **heart disease** in United States per
year and is the #1 killer

Current treatment options for heart failure are surgery, vasodilators, water pills, heart transplant, or implantable devices. There is a scarcity of assets in the heart failure drug market with heightened interest due to COVID.

## **Small Molecule INHIBITOR**

BLG#16-090



Potent, selective, **small molecule inhibitors** of steroid receptor co-activators (SRC) as potential therapeutics for different types of cancers

Our **proprietary SI-12** compound is **simpler** and **less costly** to manufacture, distribute, store, and administer to patients

- Selectively toxic to cancer cells
- Efficacy in multiple in vivo cancer models
- Targeted approach of inhibiting SRC than chemotherapy

70%

On average, SI-12 treated mice saw tumor growth reduced by 70% compared to control

INDICATIONS: Breast/pancreatic

\$125 Billion

molecule drugs by 2026

Market for oncology small

57,600

People will be diagnosed with pancreatic cancer in US per year Current treatment options for pancreatic and breast cancer are surgery, radiation therapy, chemotherapy, targeted therapy, and immunotherapy. There is a large **unmet need for cancer therapies** which have tolerable side effects and good efficacy.